## **RAW SEQUENCE LISTING**

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) no errors detected.

Application Serial Number: 091155,676

Source:

Date Processed by STIC: 4-7-05

# ENTERED



IFW16

RAW SEQUENCE LISTING DATE: 04/07/2005
PATENT APPLICATION: US/09/155,676B TIME: 09:33:54

Input Set : A:\sequence listing.txt
Output Set: N:\CRF4\04072005\I155676B.raw

3 <110> APPLICANT: WALLACH, David MALININ, Nikolai BOLDIN, Mark KOVALENKO, Andrei METT, Igor 9 <120> TITLE OF INVENTION: MODULATORS OF THE RECEPTOR ASSOCIATED FACTOR (TRAF), THEIR PREPARATION AND USE 10 12 <130> FILE REFERENCE: WALLACH=21 (pg.6) 14 <140> CURRENT APPLICATION NUMBER: 09/155,676B 15 <141> CURRENT FILING DATE: 1999-01-04 17 <150> PRIOR APPLICATION NUMBER: PCT/IL97/00117 18 <151> PRIOR FILING DATE: 1997-04-01 20 <150> PRIOR APPLICATION NUMBER: IL 117800 21 <151> PRIOR FILING DATE: 1996-04-02 23 <150> PRIOR APPLICATION NUMBER: IL 119133 24 <151> PRIOR FILING DATE: 1996-08-26 26 <160> NUMBER OF SEQ ID NOS: 22 28 <170> SOFTWARE: PatentIn version 3.3 30 <210> SEQ ID NO: 1 31 <211> LENGTH: 1906 32 <212> TYPE: DNA 33 <213> ORGANISM: Homo sapiens 36 <220> FEATURE: 37 <221> NAME/KEY: misc feature 38 <222> LOCATION: (94)..(94) 39 <223> OTHER INFORMATION: n is a, c, g, or t 41 <220> FEATURE: 42 <221> NAME/KEY: misc feature 43 <222> LOCATION: (110)..(110) 44 <223> OTHER INFORMATION: n is a, c, g, or t 46 <220> FEATURE: 47 <221> NAME/KEY: misc\_feature 48 <222> LOCATION: (115)..(115) 49 <223> OTHER INFORMATION: n is a, c, g, or t 51 <220> FEATURE: 52 <221> NAME/KEY: misc feature 53 <222> LOCATION: (129)..(129) 54 <223> OTHER INFORMATION: n is a, c, g, or t 56 <220> FEATURE: 57 <221> NAME/KEY: misc feature 58 <222> LOCATION: (131)..(131)

61 <220> FEATURE:

59 <223> OTHER INFORMATION: n is a, c, g, or t

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62 <221> NAME/KEY: misc feature
     63 <222> LOCATION: (136)..(136)
     64 <223> OTHER INFORMATION: n is a, c, g, or t
     66 <220> FEATURE:
     67 <221> NAME/KEY: misc feature
     68 <222> LOCATION: (202)..(202)
     69 <223> OTHER INFORMATION: n is a, c, g, or t
     71 <400> SEQUENCE: 1
     72 cattgggtca cgcggtggcg gcgctctaga atagtggatc ccccgggctg caggaattcg
                                                                               60
W--> 74 attcgaggcc acgaaggccg gcggcgcgcc gcangcaccg gcccggggan aggcnccatg
                                                                              120
                                                                              180
     76 agcggatcnc ngaacnatga caaaagacaa tttctgctgg agcgactgct ggatgcagtg
                                                                              240
     78 aaacaqtqcc aqatccqctt tnqagggaga aaggagattg cctcggattc cgacagcagg
                                                                              300
     80 qtcacctqtc tqtqtqccca qtttqaagcc gtcctgcagc atggcttgaa gaggagtcga
                                                                              360
     82 qqattqqcac tcacaqcqqc aqcqatcaaq caggcagcgg gctttgccag caaaaccgaa
     84 acagaqcccq tqttctqqta ctacqtqaaq qaqqtcctca acaaqcacqa gctqcagcqc
                                                                              420
     86 ttctactccc tgcgccacat cgcctcagac gtgggccggg gtcgcgcctg gctgcgctgt
                                                                              480
                                                                              540
     88 gccctcaacg aacactccct ggagcgctac ctgcacatgc tcctggccga ccgctgcagg
                                                                              600
     90 ctgagcactt tttatgaaga ctggtctttt gtgatggatg aagaaaggtc cagtatgctt
                                                                              660
     92 cctaccatgg cagcaggtct gaactccata ctctttgcga ttaacatcga caacaaggat
     94 ttgaacgggc agagtaagtt tgctcccacc gtttcagacc tcttaaagga gtcaacgcag
                                                                              720
     96 aacgtgacct ccttgctgaa ggagtccacg caaggagtga gcagcctgtt cagggagatc
                                                                              780
                                                                              840
     98 acagectect etgeogtete catecteate aaacetgaac aggagacega ceettgeetg
     100 tcgtgtccag gaatgtcagt gctgatgcca aatgcaaaaa ggagcggaag aagaaaaaga
                                                                               900
     102 aagtgaccaa cataatctca tttgatgatg aggaagatga gcagaactct ggggacgtgt
                                                                               960
     104 ttaaaaagac acctggggca ggggagagct cagaggacaa ctccgaccgc tcctctgtca
                                                                              1020
     106 atatcatgtc cgcctttgaa agccccttcg ggcctaactc caatggaatc agagcagcaa
                                                                              1080
     108 ctcatqqaaa attgattccc tgtctttgaa cggggagttt gggtaccaga agcttgatgt
                                                                              1140
                                                                              1200
     110 qaaaagcatc gatgatgaag atgtggatga aaacgaagat gacgtgtatg gaaactcatc
                                                                              1260
     112 aggaaggaag cacaggggcc actcggagtc gcccgagaag ccactggaag ggaacacctg
                                                                              1320
     114 cctctcccag atgcacagct gggctccgct gaaggtgctg cacaatgact ccgacatcct
     116 cttccctgtc agtggcgtgg gctcctacag cccagcagat gcccccctcg gaagcctgga
                                                                              1380
                                                                              1440
     118 qaacqqqaca ggaccaqaqq accacqttct cccggatcct ggacttcggt acaqtgtgga
                                                                              1500
     120 agecagetet ceaggecacg gaagteetet gageageetg ttaettetge etcagtgeca
                                                                              1560
     122 gagtccatga caattagtga actgcgccag gccactgtgg ccatgatgaa caggaaggat
     124 gagctggagg aggagaacag atcactgcga aacctgctcg acggtgagat ggagcactca
                                                                              1620
     126 gccgcgctcc ggcaagaggt ggacaccttg aaaaggaagg tggctgaaca ggaggagcgg
                                                                              1680
                                                                              1740
     128 cagggcatga aggtccaggc gctggccagc tatctttgct attttgtgag gagattctaa
                                                                              1800
     130 ccccacgtga gaaccatgtg gtggagaaat ggagggagag agaaatccaa cagttcctga
                                                                              1860
     132 tagtctcatt tgagctcctg gatccagtct ttcctgaagc tgtgtttcct ctggactttt
                                                                              1906
     134 catqtatqtq aqccaataaa ttqctttcat tccttgaaaa aaaaaa
     137 <210> SEQ ID NO: 2
     138 <211> LENGTH: 604
     139 <212> TYPE: PRT
     140 <213> ORGANISM: Homo sapiens
     143 <220> FEATURE:
     144 <221> NAME/KEY: misc feature
     145 <222> LOCATION: (1)..(1)
     146 <223> OTHER INFORMATION: Xaa can be any naturally occurring amino acid
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148 <220> FEATURE:

#### RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/155,676B TIME: 09:33:54

DATE: 04/07/2005

Input Set : A:\sequence listing.txt
Output Set: N:\CRF4\04072005\I155676B.raw

- 149 <221> NAME/KEY: misc feature
- 150 <222> LOCATION: (6)..(6)
- 151 <223> OTHER INFORMATION: Xaa can be any naturally occurring amino acid
- 153 <220> FEATURE:
- 154 <221> NAME/KEY: misc feature
- 155 <222> LOCATION: (8)..(8)
- 156 <223> OTHER INFORMATION: Xaa can be any naturally occurring amino acid
- 158 <220> FEATURE:
- 159 <221> NAME/KEY: misc\_feature
- 160 <222> LOCATION: (13)..(13)
- 161 <223> OTHER INFORMATION: Xaa can be any naturally occurring amino acid
- 163 <220> FEATURE:
- 164 <221> NAME/KEY: misc feature
- 165 <222> LOCATION: (15)..(15)
- 166 <223> OTHER INFORMATION: Xaa can be any naturally occurring amino acid
- 168 <220> FEATURE:
- 169 <221> NAME/KEY: misc\_feature
- 170 <222> LOCATION: (37)..(37)
- 171 <223> OTHER INFORMATION: Xaa can be any naturally occurring amino acid
- 173 <220> FEATURE:
- 174 <221> NAME/KEY: misc\_feature
- 175 <222> LOCATION: (271)..(271)
- 176 <223> OTHER INFORMATION: Xaa can be any naturally occurring amino acid
- 178 <220> FEATURE:
- 179 <221> NAME/KEY: misc\_feature
- 180 <222> LOCATION: (274)..(274)
- 181 <223> OTHER INFORMATION: Xaa can be any naturally occurring amino acid
- 183 <220> FEATURE:
- 184 <221> NAME/KEY: misc\_feature
- 185 <222> LOCATION: (334)..(334)
- 186 <223> OTHER INFORMATION: Xaa can be any naturally occurring amino acid
- 188 <220> FEATURE:
- 189 <221> NAME/KEY: misc\_feature
- 190 <222> LOCATION: (348)..(348)
- 191 <223> OTHER INFORMATION: Xaa can be any naturally occurring amino acid
- 193 <220> FEATURE:
- 194 <221> NAME/KEY: misc feature
- 195 <222> LOCATION: (354)..(355)
- 196 <223> OTHER INFORMATION: Xaa can be any naturally occurring amino acid
- 198 <220> FEATURE:
- 199 <221> NAME/KEY: misc\_feature
- 200 <222> LOCATION: (359)..(359)
- 201 <223> OTHER INFORMATION: Xaa can be any naturally occurring amino acid
- 203 <220> FEATURE:
- 204 <221> NAME/KEY: misc\_feature
- 205 <222> LOCATION: (363)..(363)
- 206 <223> OTHER INFORMATION: Xaa can be any naturally occurring amino acid
- 208 <220> FEATURE:
- 209 <221> NAME/KEY: misc\_feature

#### RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/155,676B TIME: 09:33:54

DATE: 04/07/2005

Input Set : A:\sequence listing.txt
Output Set: N:\CRF4\04072005\I155676B.raw

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210 <222> LOCATION: (405)..(405)
     211 <223> OTHER INFORMATION: Xaa can be any naturally occurring amino acid
     213 <220> FEATURE:
     214 <221> NAME/KEY: misc feature
     215 <222> LOCATION: (549)..(549)
     216 <223> OTHER INFORMATION: Xaa can be any naturally occurring amino acid
     218 <220> FEATURE:
     219 <221> NAME/KEY: misc feature
     220 <222> LOCATION: (569)..(570)
     221 <223> OTHER INFORMATION: Xaa can be any naturally occurring amino acid
     223 <400> SEQUENCE: 2
W--> 225 Xaa Thr Gly Pro Gly Xaa Gly Xaa Met Ser Gly Ser Xaa Asn Xaa Asp
     229 Lys Arg Gln Phe Leu Leu Glu Arg Leu Leu Asp Ala Val Lys Gln Cys
                     20
                                         25
     233 Gln Ile Arg Phe Xaa Gly Arg Lys Glu Ile Ala Ser Asp Ser Asp Ser
     237 Arg Val Thr Cys Leu Cys Ala Gln Phe Glu Ala Val Leu Gln His Gly
     241 Leu Lys Arg Ser Arg Gly Leu Ala Leu Thr Ala Ala Ala Ile Lys Gln
                             70
                                                 75
     245 Ala Ala Gly Phe Ala Ser Lys Thr Glu Thr Glu Pro Val Phe Trp Tyr
                                             90
     249 Tyr Val Lys Glu Val Leu Asn Lys His Glu Leu Gln Arg Phe Tyr Ser
                    100
                                         105
     253 Leu Arg His Ile Ala Ser Asp Val Gly Arg Gly Arg Ala Trp Leu Arg
                115
                                     120
     257 Cys Ala Leu Asn Glu His Ser Leu Glu Arg Tyr Leu His Met Leu Leu
                                                     140
                                 135
     261 Ala Asp Arg Cys Arg Leu Ser Thr Phe Tyr Glu Asp Trp Ser Phe Val
                             150
     265 Met Asp Glu Glu Arg Ser Ser Met Leu Pro Thr Met Ala Ala Gly Leu
                                             170
                         165
     269 Asn Ser Ile Leu Phe Ala Ile Asn Ile Asp Asn Lys Asp Leu Asn Gly
                                         185
                     180
     273 Gln Ser Lys Phe Ala Pro Thr Val Ser Asp Leu Leu Lys Glu Ser Thr
                195
                                     200
                                                          205
     277 Gln Asn Val Thr Ser Leu Leu Lys Glu Ser Thr Gln Gly Val Ser Ser
                                                      220
                                 215
     281 Leu Phe Arg Glu Ile Thr Ala Ser Ser Ala Val Ser Ile Leu Ile Lys
                                                 235
                             230
     285 Pro Glu Gln Glu Thr Asp Pro Cys Leu Ser Cys Pro Gly Met Ser Val
                                             250
                         245
     289 Leu Met Pro Asn Ala Lys Arg Ser Gly Arg Arg Lys Arg Lys Xaa Pro
                                         265
                     260
     293 Thr Xaa Ser His Leu Met Met Arg Lys Met Ser Arg Thr Leu Gly Thr
                                     280
     297 Cys Leu Lys Arg His Leu Gly Gln Gly Arg Ala Gln Arg Thr Thr Pro
                                 295
     298 290
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DATE: 04/07/2005

#### RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/155,676B TIME: 09:33:54

Input Set : A:\sequence listing.txt
Output Set: N:\CRF4\04072005\I155676B.raw

```
301 Thr Ala Pro Leu Ser Ile Ser Cys Pro Pro Leu Lys Ala Pro Ser Gly
                       310
                                            315
302 305
305 Leu Thr Pro Met Glu Ser Glu Gln Gln Leu Met Glu Asn Xaa Phe Pro
                   325
                                        330
309 Val Phe Glu Arg Gly Val Trp Val Pro Glu Ala Xaa Cys Glu Lys His
                                    345
               340
313 Arg Xaa Xaa Arg Cys Gly Xaa Lys Arg Arg Xaa Arg Val Trp Lys Leu
                               360
317 Ile Arg Lys Glu Ala Gln Gly Pro Leu Gly Val Ala Arg Glu Ala Thr
                           375
321 Gly Arg Glu His Leu Pro Leu Pro Asp Ala Gln Leu Gly Ser Ala Glu
                       390
                                            395
325 Gly Ala Ala Gln Xaa Leu Arg His Pro Leu Pro Cys Gln Trp Arg Gly
                   405
                                        410
329 Leu Leu Gln Pro Ser Arg Cys Pro Pro Arg Lys Pro Gly Glu Arg Asp
                                    425
330
                420
333 Arg Thr Arg Gly Pro Arg Ser Pro Gly Ser Trp Thr Ser Val Gln Cys
                                440
           435
337 Gly Ser Gln Leu Ser Arg Pro Arg Lys Ser Ser Glu Gln Pro Val Thr
       450
                            455
341 Ser Ala Ser Val Pro Glu Ser Met Thr Ile Ser Glu Leu Arg Gln Ala
                        470
                                            475
345 Thr Val Ala Met Met Asn Arg Lys Asp Glu Leu Glu Glu Asn Arg
                                        490
                    485
349 Ser Leu Arg Asn Leu Leu Asp Gly Glu Met Glu His Ser Ala Ala Leu
               500
                                    505
353 Arg Gln Glu Val Asp Thr Leu Lys Arg Lys Val Ala Glu Gln Glu Glu
                                520
                                                    525
           515
357 Arg Gln Gly Met Lys Val Gln Ala Leu Ala Ser Tyr Leu Cys Tyr Phe
        530
                            535
361 Val Arg Arg Phe Xaa Pro His Val Arg Thr Met Trp Trp Arg Asn Gly
                                            555
                        550
365 Gly Arg Glu Lys Ser Asn Ser Ser Xaa Xaa Ser His Leu Ser Ser Trp
                    565
                                        570
369 Ile Gln Ser Phe Leu Lys Leu Cys Phe Leu Trp Thr Phe His Val Cys
                                    585
               580
373 Glu Pro Ile Asn Cys Phe His Ser Leu Lys Lys
                                600
       595
377 <210> SEQ ID NO: 3
378 <211> LENGTH: 2631
379 <212> TYPE: DNA
380 <213> ORGANISM: Homo sapiens
383 <220> FEATURE:
384 <221> NAME/KEY: misc_feature
385 <222> LOCATION: (1081)..(1081)
386 <223> OTHER INFORMATION: n is a, c, g, or t
388 <220> FEATURE:
389 <221> NAME/KEY: misc feature
390 <222> LOCATION: (1102)..(1102)
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RAW SEQUENCE LISTING ERROR SUMMARY
PATENT APPLICATION: US/09/155,676B

DATE: 04/07/2005
TIME: 09:33:55

Input Set : A:\sequence listing.txt
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#### Please Note:

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

### Invalid <213> Response:

Use of "Artificial" only as "<213> Organism" response is incomplete, per 1.823(b) of New Sequence Rules. Valid response is Artificial Sequence.

Seq#:8,9,10,11,21,22

VERIFICATION SUMMARY

PATENT APPLICATION: US/09/155,676B

DATE: 04/07/2005 TIME: 09:33:55

Input Set : A:\sequence listing.txt

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L:74 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1 after pos.:60

M:341 Repeated in SeqNo=1

L:225 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2 after pos.:0

M:341 Repeated in SeqNo=2

L:770 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3 after pos.:1080

M:341 Repeated in SeqNo=3

L:835 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:4 after pos.:0

L:920 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:5 after pos.:16

M:341 Repeated in SeqNo=5